=> d his 1

(FILE 'HCAPLUS' ENTERED AT 11:58:49 ON 26 MAY 2004) L2 1 S L1 AND RIBOZYME#

=> fil reg FILE 'REGISTRY' ENTERED AT 12:00:50 ON 26 MAY 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 MAY 2004 HIGHEST RN 685826-98-6 DICTIONARY FILE UPDATES: 25 MAY 2004 HIGHEST RN 685826-98-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sqide 11 1-9

- L1 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 288706-09-2 REGISTRY
- CN GenBank AX012290 (9CI) (CA INDEX NAME)
- FS NUCLEIC ACID SEQUENCE
- SOL 57
- NA 7 a 20 c 19 g 11 t
- SEQ 1 gggtccacct cctcgcggtc cgatctgggc atgcggcttc gcatggctaa
 - 51 gggaccc

HITS AT: 1-57

- MF Unspecified
- CI MAN
- SR GenBank
- LC STN Files: GENBANK
- L1 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 288706-08-1 REGISTRY
- CN GenBank AX012289 (9CI) (CA INDEX NAME)
- FS NUCLEIC ACID SEQUENCE
- SOL 57
- NA 7 a 20 c 20 g 10 t
- SEQ 1 gggtccacct cctcgcggtc cgagctgggc atgcggcttc gcatggctaa
 - 51 gggaccc

Zara 09/699,667

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HITS AT: 1-57
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    GenBank -
LC
    STN Files:
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    ANSWER 3 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
    288706-07-0 REGISTRY
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SEQ
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         51 gggaccc
         ======
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CI
    MAN
SR
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LC
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    ANSWER 4 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
L1
    288706-06-9 REGISTRY
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    ANSWER 5 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
L1
    288706-05-8 REGISTRY
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    MAN
SR
    GenBank
LC
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    ANSWER 6 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
L1
    288706-02-5 REGISTRY
RN
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Zara 09/699,667

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          ____________________
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        1-57
HITS AT:
MF
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CI
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SR
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LC
    ANSWER 7 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
L1
    288706-01-4 REGISTRY
RN
CN
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                         (CA INDEX NAME)
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         ======
         1-57
HITS AT:
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CI
    MAN
SR
    GenBank
    STN Files: GENBANK
LC
    ANSWER 8 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
L1
RN
    210411-85-1 REGISTRY
CN
    Ribozyme (synthetic hepatitis delta virus trans-cleaving derivative
    SRzP1.2) (9CI) (CA INDEX NAME)
    NUCLEIC ACID SEQUENCE
FS
SQL
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    7 a
         21 c 19 q
NA
                      10 u
NTE
    singlestranded
SEQ
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          51 gggaccc
         ____
        1-57
HITS AT:
MF
    Unspecified
CI
    MAN
SR
    CA
LC
   STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)
             1 REFERENCES IN FILE CA (1907 TO DATE)
             1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
    ANSWER 9 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
L1
    210411-84-0 REGISTRY
RN
    Ribozyme (synthetic hepatitis delta virus trans-cleaving derivative
CN
    SRzP1.1) (9CI) (CA INDEX NAME)
```

Search completed by David Schreiber x22526

FS NUCLEIC ACID SEQUENCE

SQL 57

NA 7 a 21 c 19 g 10 u

NTE singlestranded

SEQ 1 ggguccaccu ccucgegguc cgaccugggc augcggcuuc gcauggcuaa

51 gggaccc

HITS AT: 1-57 MF Unspecified

CI MAN SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 12:01:28 ON 26 MAY 2004

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FILE COVERS 1907 - 26 May 2004 VOL 140 ISS 22 FILE LAST UPDATED: 25 May 2004 (20040525/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d ibib abs 12 1

L2 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:345095 HCAPLUS

DOCUMENT NUMBER: 129:132959

TITLE: Substrate specificity of δ ribozyme

cleavage

AUTHOR(S): Ananvoranich, Sirinart; Perreault, Jean-Pierre

CORPORATE SOURCE: Department de Biochimie, Universite de Sherbrooke,

Quebec, J1H 5N4, Can.

SOURCE: Journal of Biological Chemistry (1998), 273(21), \triangleright

13182-13188

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular

Biology

Zara 09/699,667

DOCUMENT TYPE: Journal LANGUAGE: English

The specificity of δ ribozyme cleavage was investigated using a trans-acting antigenomic δ ribozyme. Under single turnover conditions, the wild type ribozyme cleaved the 11-mer ribonucleotide substrate with a rate constant of 0.34 min-1, an apparent Km of 17.9 nM and an apparent second-order rate constant of 1.89 + 107 min-1 M-1. The substrate specificity of the δ ribozyme was thoroughly investigated using a collection of substrates that varied in either the length or the nucleotide sequence of their P1 stems. The authors observed that not only is the base pairing of the substrate and the ribozyme important to cleavage activity, but also both the identity and the combination of the nucleotide sequence in the substrates are essential for cleavage activity. The authors show that the nucleotides in the middle of the P1 stem are essential for substrate binding and subsequent steps in the cleavage pathway. The introduction of any mismatches at these positions resulted in a complete lack of cleavage by the wild type ribozyme. Our findings suggest that factors more complex than simple base pairing interactions, such as tertiary structure interactions, could play an important role in the substrate specificity of δ ribozyme cleavage.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT